PATENT
ATTORNEY DOCKET NO.: FIBRO1130-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Grotendorst and Neff	Art Unit:	Unassigned
Parent Serial No.:	09/461,646	Examiner:	Unassigned
Parent Filing Date:	December 14, 1999		
Serial No.:	Unassigned		
Filed:	September 9, 2003		
Title:	CONNECTIVE TISSUE GROWTH FACTOR FRAGMENTS AND METHODS AND USES THEREOF		

Mail Stop PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 § CFR 1.97, Applicants bring to the Examiner's attention the related parent patent application, U.S. Serial No. 09/461,646, filed December 14, 1999, which is relied upon for an earlier filing date under 35 USC § 120. For the convenience of the Examiner, copies of the PTO Forms 892 and 1449 are enclosed.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

CERTIFICATION UNDER 37 CFR §1.10
"EXPRESS MAIL" Mailing Label Number: **EV 318 738 191 US**
Date of Deposit: **September 9, 2003**
I hereby certify that this correspondence is being deposited with the United States Postal Service as **"Express Mail Post Office to Addressee"** with sufficient postage on the date indicated above and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
JASON BERRY *(Name of Person Mailing Paper)*
(Signature) Jason Berry September 9, 2003 *(Date)*

Gray Cary\GT\6353918.1
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No fee is deemed necessary in connection with the filing of this Information Disclosure Statement, because it is being filed prior to the receipt of a first office action on the merits of the above-captioned application. However, if any fee is required, authorization is hereby given to charge any fees associated with the filings submitted herewith, or credit any overpayment to Deposit Account No. 50-1355. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Date: September 9, 2003

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PTO 892 DEA/FCE 1994 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE NOTICE OF REFERENCES CITED	SERIAL NUMBER 09/461646	Art Unit 1647	Attachment to Paper Number 18
	APPLICANT(S) : Grotendorst et al.		

U.S. PATENT DOCUMENTS

*		DOCUMENT NUMBER	DATE	NAME(S)	CLASS	SUBCLASS	FILING DATE
		5,876,730	3/2/99	Brigstock et al.	424	198.1	8/7/97

FOREIGN PATENT DOCUMENTS

*		DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS	PERTINENT DRW	PERTINENT SPEC

*		OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER	DATE	* A COPY OF THIS REFERENCE IS NOT BEING FURNISHED WITH THIS OFFICE ACTION. (SEE MPEP SECTION 707.05(a).
	10/18/1	PAGE 1 OF 1

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office JUN 0 9 2003	Docket No.: FIBR01130-2	Application No.: 09/461,646
	Applicants: CONNECTIVE TISSUE GROWTH FACTOR FRAGMENTS AND METHODS OF USES THEREOF	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: December 14, 1999	Group Art Unit: 1647

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U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	AD	Steffen et al., "Characterization of Cell-Associated and Soluble Forms of Connective Tissue Growth Factor (CTGF) Produced by Fibroblast Cells In Vitro Growth Factors" *Harwood Academic Publishers GmbH*, Vol. 15, No. 3, pages 199-213, 1998.
	AE	Ball et al., "Characterization of 16- to 20-kilodalton (kDa) Connective Tissue Growth Factors (CTGFs) and Demonstration of Proteolytic Activity For 38-kDa CTGF in Pig Uterine Luminal Flushings", *Biology of Reproduction*, Vol. 59, No. 4, October 1998.
	AF	Shimo et al., Inhibition of Endogenous Expression of Connective Tissue Growth Factor by its Antisense Oligonucleotide and Antisense RNA Suppresses Proliferation and Migration of Vascular Endothelial Cells", *Journal of Biochemistry*, Vol. 124, No. 1, July 1998.

EXAMINER	DATE CONSIDERED
J. Spector	8/14/03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No.: FIBR01130-2	Application No.: 09/461,646
	Applicants: CONNECTIVE TISSUE GROWTH FACTOR FRAGMENTS AND METHODS OF USES THEREOF	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: December 14, 1999	Gr up Art Unit: 1647

	AG	Frazier et al., "Stimulation of Fibroblast Cell Growth, Matrix Production and Granulation Tissue Formation By Connective Tissue Growth Factor", *Journal of Investigative Dermatology*, Vol. 107, No. 3, 1996.

EXAMINER	DATE CONSIDERED
L. Spector	8/14/03

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Form 1449

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No.: FIBRO1130-2	Application No.: 09/461,646
	Applicants: Grotendorst and Neff	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: December 14, 1999	Group Art Unit: 1647

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	AA	Mori, et al. "Role and Interaction of Connective Tissue Growth Factor with Transforming Growth Factor-B in Persistent Fibrosis: A Mouse Fibrosis Model," *Journal of Cellular Physiology,* 181:153-159 (1999).
	AB	Nakanishi, et al. "Cloning of mRNA Preferentially Expressed in Chondrocytes by Differential Differential Display-PCR from a Human Chondrocytic Cell Line that is Identical with Connective Tissue Growth Factor (CTGF) mRNA," *Biochemical and Biophysical Research Communications*, 234:206-210 (1997).
	AC	Pawar, et al. "Differential Gene Expression in Migrating Renal Epithelial Cells After Wounding," *Journal of Cellular Physiology,* 165:556-565 (1995).

7/12/01

Paper # 17

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No. **FIBRO1130-2**	Serial No.: **09/461,646**
	Applicant(s): Grotendorst et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: **December 14, 1999**	Group Art Unit: **1646**

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	AW	Nakanishi et al., "Cloning of a mRNA Preferentially Expressed in Chondrocytes by Differential Display-PCR from a Human Chondrocytic Cell Line That Is Identical with Connective Tissue Growth Factor (CTGF) mRNA," *Biochemical and Biophysical Research Communications*, **234**:206-210 (1997)
	AX	Pawar et al., "Differential Gene Expression in Migrating Renal Epithelial Cells After Wounding," *Journal of Cellular Physiology*, **165**:556-565 (1995)

Also cited in paper #17

EXAMINER	DATE CONSIDERED
L. Lorton	9/12/01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449
Gray Cary\GT\6181289.1
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Paper #4

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No.: FIBRO1130-2	Serial No.: 09/461,646
	Applicant(s): Grotendorst and Neff	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: December 14, 1999	Group Art Unit: 1646

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

		Brigstock et al., "Purification and Characterization of Novel Heparin-binding Growth Factors in Uterine Secretory Fluids," *The Journal of Biological Chemistry* **272(32)**:20275-20282 (August 8, 1997)

EXAMINER	DATE CONSIDERED
	8/12/01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No. **FIBRO1130-2**	Serial No.: **09/461,646**
	Applicant(s): Grotendorst et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: **December 14, 1999**	Group Art Unit: ~~1646~~ 1647

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA	5,408,040	4/18/95				
	AB	5,585,270 *	12/17/96				
	AC	5,783,187 *	7/21/98				
	AD	5,770,209	6/23/98				
	AE	5,837,258	11/17/98				
	AF	5,916,756 *	6/29/99				

* Copy of this Patent is not enclosed as it is cumulative of Patent No. 5,408,040.

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)
	AG	WO 96/38172	12/5/96				
	AH	WO 96/38168	12/5/96				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	AI	Campochiaro et al., *Retinal Pigment Epithelial Cells Produce PDGF-like Proteins and Secrete them into their Meida**, Exp. Eye Res. Vol. 49, pp. 217-227, 1989.
	AJ	Frazier et al., *Expression of Connective Tissue Growth Factor mRNA in the Fibrous Stroma of Mammary Tumors*, Int. J. Biochem. Cell Bio., Vol. 29, No. 1, pp. 153-161, 1997.
	AK	Igarashi et al., *Connective Tissue Growth Factor Gene Expression in Tissue Sections From Localized Scleroderma, Keloid, and Other Fibrotic Skin Disorders*, The Journal of Investigative Dermatology, Vol. 106, No. 4, pp. 729-733, April 1996.

EXAMINER	DATE CONSIDERED
	10/15/01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449
Gray Cary\GT\6175316.1 (104660-990000)

Paper #5

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No. **FIBRO1130-2**	Serial No.: **09/461,646**
	Applicant(s): Grotendorst et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: **December 14, 1999**	Group Art Unit: ~~1646~~ 1647

	AL	Igarashi et al., *Regulation of Connective Tissue Growth Factor Gene Expression in Human Ski Fibroblasts and During Wound Repair*, Molecular Biology of the Cell, Vol. 4, pp. 637-645, Ju 1993.
	AM	Igarashi et al., *Significant Correlation Between Connective Tissue Growth Factor Gene Expression and Skin Scleroris in Tissue Sections from Patients with Systemic Sclerosis*, The Journal of Investigative Dermatology, Vol. 105, No. 2, pp. 280-284, August 1995.
	AN	Kikuchi et al., *Growth Regulation in Scleroderma Fibroblasts: Increased Response to Transforming Growth Factor-β1*, The Journal of Investigative Dermatology, Vol. 105, No. 1, pp. 128-132, July 1995.
	AO	Mori et al., *Role and Interaction of Connective Tissue Growth Factor With Transforming Growth Factor-β in Persistent Fibrosis: A Mouse Fibrosis Model*, Journal of Cellular Physiology Vol. 181, pp. 153-159, 1999. Paper #17
	AP	Murphy et al., *Suppression Substrative Hybridization Identifies High Glucose Levels as a Stimulus for Expression of Connective Tissue Growth Factor and Other Genes in Human Mesangial Cells*, The Journal of Biological Chemistry, Vol. 274, No. 9, pp. 5830-5834, Issue c February 26, 1999.
	AQ	Oemar et al., *Human Connective Tissue Growth Factor Is Expressed in Advanced Atherosclerotic Lesions*, Circulation, Vol. 95, No. 4, pp. 831-839, February 18, 1997.
	AR	Ohnishi et al., *Increased Expression of Connective Tissue Growth Factor in the Infarct Zone o Experimentally Induced Myocardial Infarction in Rats*, J. Mol. Cell Cardio., Vol. 30, pp. 2411-2422, 1998.
	AS	Ryseck et al., *Structure, Mapping, and Expression of fisp-12 a Growth Factor-Inducible Gene Encoding a Secreted Cysteine-rich Protein*, Cell Growth & Differentiation, Vol. 2, pp. 225-23 May 1991.
	AT	Shimo et al., *Connective Tissue Growth Factor Induces the Proliferation, Migration, and Tube Formation of Vascular Endothelial Cells In Vitro, and Angiogenesis In Vivo*, J. Biochem. Vol. 126, pp. 137-145, 1999.
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	AV	Wenger et al., *Expression and differential regulation of connective tissue growth factor in pancreatic cancer cells*, CTGF and pancreatic cancer, pp. 1073-1080.

EXAMINER	DATE CONSIDERED
	10/17/01

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